

## **Apple II IWM Port Description**

## http://web.pdx.edu/~heiss 22 January 2006

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Miscellaneous #6
IWM Port Description
Revised by Glenn A. Baxter (November 1988)
Written by Cameron Birse (February 1986)
This Technical Note documents the IWM port pin assignments on various machines.
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Apple IIGS Disk Port Pin Assignments
Signal Name Disk Port Pins (DB-19)
Phase 0 11
Phase 1 12
Phase 2 13
Phase 3
         14
/WReq 15
Dr1 17
Rd
    18
   19
Wr
Wrt Prot
        10
Dr2 9
        16
HeadSel
Gnd 1,2,3
3.5Disk
-12v 5
+5v
    6
+12v 7,8
Apple IIe UniDisk 3.5 Controller Disk Port Pin Assignments
Signal Name
Disk Port Pins (DB-19)
Phase 0
11
Phase 1
Phase 2
13
Phase 3
14
/WrtReqII
15
```

```
/HstEnbl
17
Rd
18
Wr
19
Wrt Prot
10
No Connection
9,16
Gnd
1,2,3,4
-12v
+5v
+12v
7,8
Apple IIc Disk Port Pin Assignments
Signal Name
Disk Port Pins (DB-19)
Phase 0
11
Phase 1
12
Phase 2
13
Phase 3
14
/WrtReq
15
/Enbl 2
17
Rd
18
Wr
19
Wrt Prot
No Connection
16
Gnd
1,2,3,4
-12v
5
+5v
+12v
7,8
External Interrupt
```

Note: On the Apple IIc Plus, the disk port pins are driven by a custom ASIC instead of by the IWM chip.

Macintosh Disk Port Pin Assignments

```
Signal Name
Disk Port Pins (DB-19)
Phase 0
11
Phase 1
12
Phase 2
13
Phase 3
/WrtReq
15
/Enbl 2
17
Rd
18
Wr
19
PWM
10
HdSel
16
GND
1,2,3,4
-12v
5
+5v
6
+12v
7,8
```

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